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to Volume 13 1978

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Preface

These indexes are cumulations of the monthly indexes from the 1978 volume of Microbiology Abstracts Section A.

The **Subject Index** is compiled in the following way. For each document the indexer selects indexing terms from fixed lists of keywords which are continually updated. From these selected terms word chains are constructed, the word order being determined by the indexer. It is these word chains which make up the **Subject Index** entries.

The index terms used to create the **Subject Indexes** plus additional terms selected by the indexer to further describe and define the document are also present as a search tool in the IRL database.

The following conventions apply to all terms used in the **Subject Index**:

(1) Plants and trees are indexed under both their common English names and Latin binomials. Latin binomials are used for all other taxonomic terms except domestic animals, livestock and pets.

(2) Enzyme names follow the 1972 recommendations of the IUPAC and IUB.

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Muller, U. 5892.
Muller, W. 2323.
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